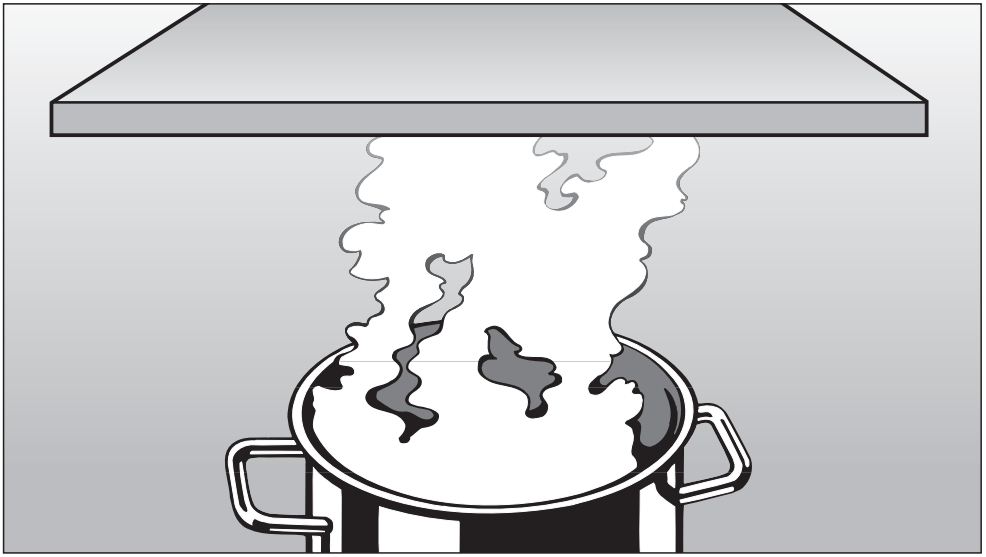
Miele

Operating and installation instructions



Cooker hood
DA 446-4,
DA 447-4,
DA 447-4 EXT,
DA 449-4,
DA 449-4 EXT

To avoid the risk of accidents or damage to this appliance it is **essential** to read these instructions before it is installed and used for the first time.

GB IRL AUS NZ ZA

M.-Nr. 06 783 630

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Disposal of the packing material

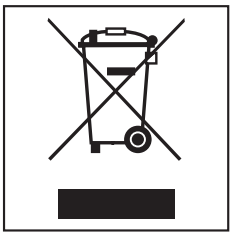
The transport and protective packing has been selected from materials which are environmentally friendly for disposal, and can normally be recycled.

Packaging e.g. cling film, polystyrene and plastic wrappings must be kept out of the reach of babies and young children. Danger of suffocation!

Dispose of or recycle all packaging materials safely as soon as possible.

Disposal of your old appliance

Electrical and electronic appliances often contain materials which, if handled or disposed of incorrectly, could be potentially hazardous to human health and to the environment. They are, however, essential for the correct functioning of your appliance. Please do not therefore dispose of your old appliance with your household waste.



Please dispose of it at your local community waste collection / recycling centre and ensure that it presents no danger to children while being stored for disposal.

It should be unplugged or disconnected from the mains electricity supply by a competent person. If connected by a plug, the plug must be rendered useless and the cable cut off directly behind the appliance to prevent misuse. See the "Warning and Safety" section of this booklet for further details.

This appliance complies with all relevant legal safety requirements. Inappropriate use can, however, lead to personal injury and damage to property.

To avoid the risk of accidents and damage to the appliance, please read these instructions carefully before using it for the first time. They contain important information on the safety, installation, use and maintenance of the appliance.

Keep these instructions in a safe place and ensure that all users are familiar with the contents. Pass them on to any future owner of the appliance.

Correct usage

This appliance is intended for domestic use only.
The manufacturer cannot be held liable for damage caused by improper or incorrect use of the appliance.

Technical safety

Before connecting the appliance to the mains supply, make sure that the connection details given on the data plate correspond with the on-site electricity supply; otherwise the appliance could get damaged. Consult a qualified electrician if in any doubt.

The electrical safety of this appliance can only be guaranteed when continuity is complete between the appliance and an effective earthing system which complies with local and national safety regulations. It is most important that this basic safety requirement is present and regularly tested, and where there is in any doubt, the household wiring system should be inspected by a qualified electrician. The manufacturer cannot be held liable for the consequences of an inadequate earthing system (e.g. electric shock).

Installation, maintenance and repair work may only be carried out by a suitably qualified and competent person in strict accordance with national and local safety regulations. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorised work.

Ensure that current is not supplied to the appliance until after maintenance or repair work has been carried out.

This equipment may only be used in mobile installations such as ships, caravans, aircraft etc. if a risk assessment of the installation has been carried out by a suitably qualified engineer.

A damaged connection cable must only be replaced by an approved and suitably qualified technician.

The appliance is only completely isolated from the electricity supply when:

– it is switched off at the wall socket and the plug withdrawn,
– the fuse from the fused spur connection unit is withdrawn,
– the mains fuse is withdrawn, or
– the screw-out fuse is removed (in countries where this is applicable).

Do not connect the appliance to the mains electricity supply by an extension lead.
Extension leads do not guarantee the required safety of the appliance (e.g. danger of overheating).

For appliances with an external motor fitted (EXT models) the connection of the two units must be made using the connection cable and the plug connectors.
These models may only be combined with a Miele external motor.

In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage caused by cockroaches or other vermin will not be covered by the appliance guarantee.

Use

Never use an open flame beneath the cooker hood. To avoid the danger of fire, do not flambé or grill over an open flame under the cooker hood. When switched on, the cooker hood could draw flames into the filter. Fat particles drawn into the cooker hood present a fire hazard.

When using the cooker hood over a gas hob, ensure that any burners in use are always covered by a pan. The burner should be switched off before taking a pan off the hob, even for brief periods.
Regulate the flames so that they do not extend beyond the base of the pan.
If flames are not covered by a pan, excessive heat can build up in the cooker hood with the risk of damage.

Always switch the cooker hood on when a cooking zone is in use, otherwise condensation may collect in the hood, which could cause corrosion.

When cooking with oil or fat, chip pans and deep fat fryers etc, do not leave the pans unattended. Never leave an open grill unattended when grilling. Overheated oil and fat can ignite and could set the cooker hood on fire.

Do not use the cooker hood without the grease filters in place.
This way you will avoid the risk of grease and dirt getting into the appliance and hindering its smooth operation.

The grease filters should be regularly cleaned or changed as appropriate. Saturated filters are a fire hazard. See "Cleaning and care".

Do not use a steam-cleaner to clean this appliance. Pressurised steam could reach the electrical components and cause a short circuit.

Safety with children

The appliance is only intended for use by adults who have read these instructions. This appliance is not a toy! To avoid the risk of injury, keep children well away, and do not allow them to play with it or use the controls. They will not understand the potential dangers posed by it. They should be supervised whenever you are working in the kitchen.

Older children may use the appliance only when its operation has been clearly explained to them and they are able to use it safely, recognising the dangers of misuse.

Please be aware that on appliances with halogen lighting, the lamps will get very hot during use and remain hot for some time after switching off. To safeguard against burning, keep children well away from the lamps at all times.

Packaging, e.g. cling film, polystyrene and plastic wrappings, must be kept out of the reach of babies and young children. Danger of suffocation. Dispose of or recycle all packaging safely as soon as possible.

Installation

The minimum safety distance between the top of a cooker or hob and the bottom of the cooker hood is as follows, unless a greater distance is specified by the manufacturer of your cooking appliance:

– 450 mm above electric hobs and cookers,

– 650 mm above gas hobs and cookers,

– 650 mm above an open grill or deep fat fryer.

If more than one appliance is fitted beneath the cooker hood and they have different minimum safety distances to the cooker hood, select the greater distance.

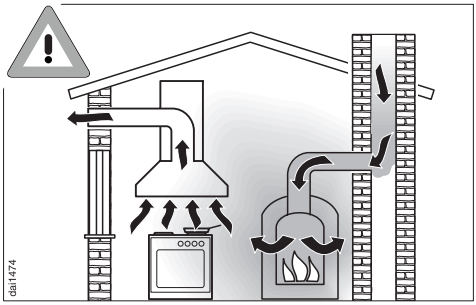
Safety regulations prohibit the fitting of a cooker hood over solid fuel stoves.

All ducting, pipework and fittings must be of non-flammable material. These can be obtained from the Miele Spare Parts department or from builders' merchants.

The appliance must not be connected to a chimney or vent flue which is in use. Neither should it be connected to ducting which ventilates rooms with fireplaces.

If exhaust air is to be extracted into a chimney or ventilation duct no longer used for other purposes, seek professional advice.

Using at the same time as other heating appliances that depend on the air from the room

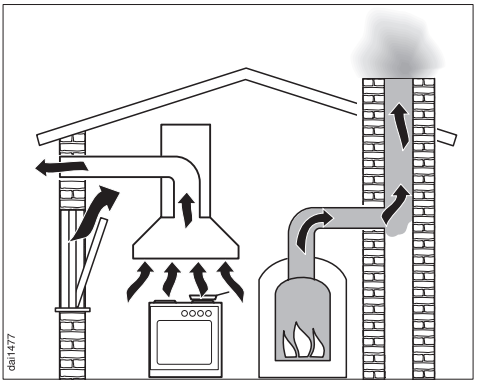


Warning - danger of toxic fumes

Great care should be taken when using the cooker hood at the same time and in the same room or area of the house as another heating appliance which depends on the air in the room. Such appliances include gas, oil, wood or coal-fired boilers and heaters, continuous flow or other water heaters, gas hobs, cookers or ovens which draw air in from the room and duct exhaust gases out through a chimney or extraction ducting.
When used in extraction mode, with or without an external motor, the appliance draws air in from the room in which it is installed **and** from neighbouring rooms. If there is insufficient air, an underpressure will occur. The heating appliance may be starved of oxygen, impairing combustion.

Harmful gases could be drawn out of the chimney or extraction ducting back into the room, with potentially fatal consequences.

In order to ensure safe operation, and to prevent gases given off by the heating appliances from being drawn back into the room when the extractor and the heater are in operation simultaneously, an underpressure in the room of 0.04 mbar (4 pa) is the maximum permissible.



Ventilation can be maintained by air inlets which cannot be blocked, in windows, doors and outside wall vents, or by other technical measures, such as ensuring that the extractor can only be switched on when the heating appliance is switched off or vice-versa. A ventilation brick alone is not generally sufficient to ensure safe ventilation.

The overall ventilation condition of the dwelling must be taken into account. If in any doubt, the advice of a competent builder or, for gas, a "Corgi" installer, must be sought.

One of the following technical measures may be necessary to ensure safe operation.

– If the only way of ensuring adequate ventilation is via an open window, a window contact switch should be fitted to ensure that the cooker hood can only operate when the window is opened sufficiently. A window contact switch kit is available from good builders' merchants.
  Take care when ventilating the room through an open window that ventilation is not impaired by a closed blind or curtain.
– The cooker hood can be set up to automatically switch on an air intake fan or open a motorised inlet flap when it is switched on.
– The cooker hood can be set up to automatically switch off a heating appliance which also depends on the air from the room when it is switched on.

The Miele DSM 400 control module offers the possibility of combining other components with the cooker hood (see "Operation with Control module DSM 400").
It is available to purchase as an optional extra.

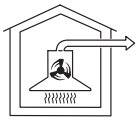
If in any doubt, the advice of a competent builder or, for gas, a "Corgi" installer, must be sought.

If the hood is being operated in recirculation mode, the above restrictions do not apply.

The manufacturer cannot be held liable for damage caused by non-compliance with these Warning and Safety instructions.

The cooker hood works with

. . . air extraction:



The air is drawn in and cleaned by the stainless steel outer filter and the grease filter, and then directed outside.

If the on-site ventilation system does not have a **non-return flap**, then the non-return flap supplied with the appliance must be fitted

Having a non-return flap fitted in the ducting ensures that air, once ducted to the outside, cannot get back into the room again.

The flap is closed when the cooker hood is switched off.

When the cooker hood is switched on, the non-return flap opens for the cooking vapours to be blown directly outside.

. . . air recirculation:

(available as an optional extra with a conversion kit and charcoal filter: see "Technical Data")

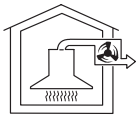
The air is drawn in and cleaned first by the stainless steel outer filter and the grease filter and then by a **charcoal filter**. The cleaned air is then recirculated back into the kitchen through grilles in the top of the cooker hood extension piece.

Charcoal filters are available to order through your Dealer or the Miele Spare Parts Department. (See back cover for contact details and "Technical Data" for model number).

Before using the cooker hood in recirculation mode, ensure that the charcoal filter is in place. See "Cleaning and care".

. . . an external motor:

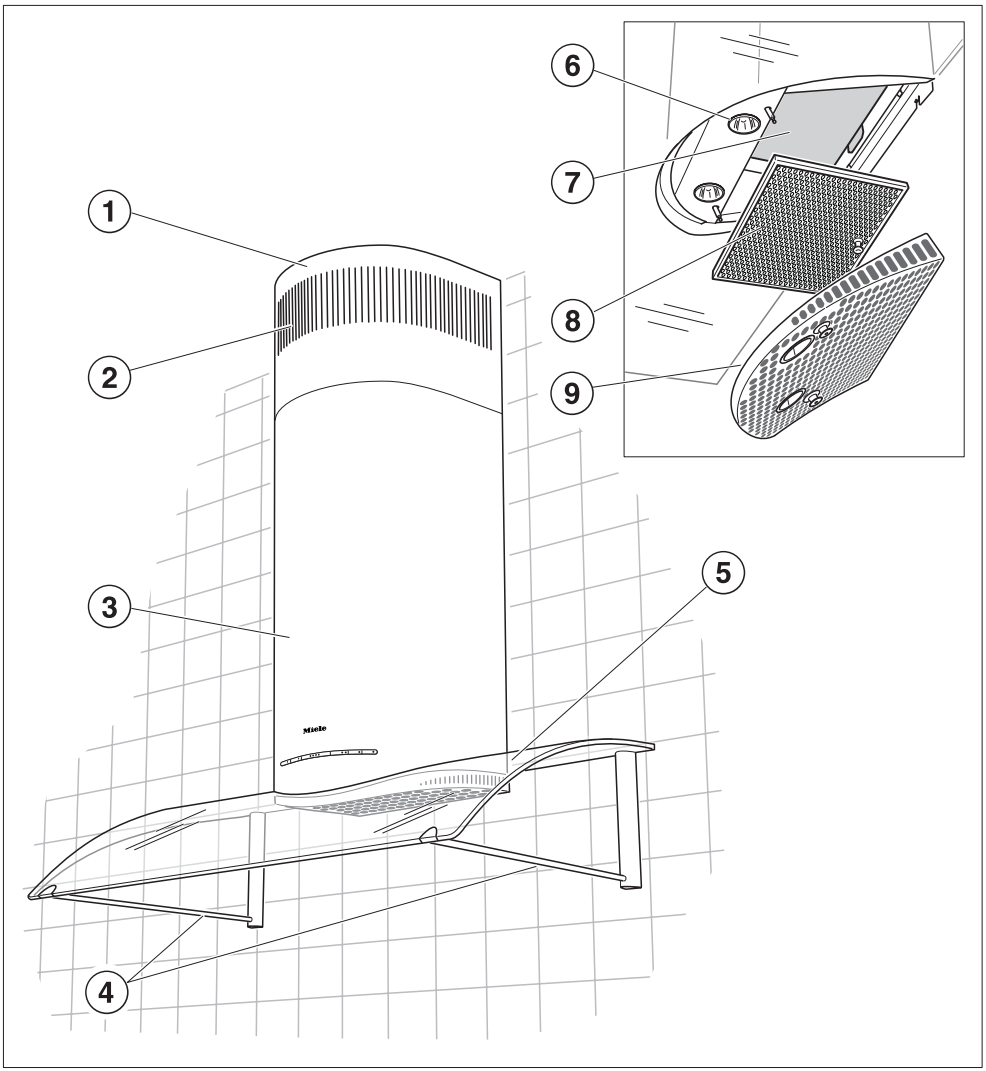
(EXT models only)

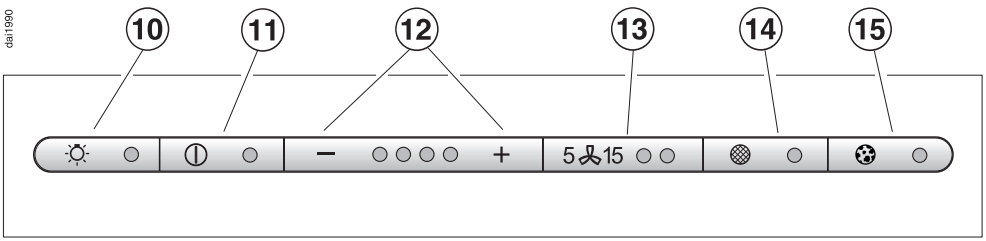


EXT models are designed to be connected to an external motor located outside the room.

The external motor is connected to the cooker hood by means of a control cable, and is operated by the controls on the cooker hood.

Guide to the appliance





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① **Extension piece**

② **Recirculation grille**

(special accessory for recirculation mode only)

③ **Tower**

④ **Side rails**

each with maximum carrying capacity of 1 kg

⑤ **Canopy**

⑥ **Hob lighting**

⑦ **Charcoal filter**

(special accessory for recirculation mode)

⑧ **Grease filter**

⑨ **Stainless steel filter**

⑩ **Touch control for the hob lighting**

This control switches the lighting on and off, and is also a dimmer switch.

⑪ **On/Off touch control for the fan**

⑫ **Touch controls to select fan power level**

⑬ **Touch control for the run-on option**

The fan can be set to switch off automatically after either 5 or 15 minutes.

⑭ **Touch control for the grease filter**

The indicator lamp for the grease filter touch control lights up when the grease filter and the outer filter need to be cleaned.

The touch control is used to reset the operating hours counter every time the grease filter and the outer filter are cleaned (see "Cleaning and care").

It can also be used to check and alter the operating hours counter.

⑮ **Touch control for the charcoal filter**

The indicator lamp for the charcoal filter lights up when the charcoal filter used in recirculation mode needs to be replaced. For this to happen, the operating hours counter needs to be activated before the appliance is used for the first time.

The touch control is used to reset the operating hours counter every time the charcoal filter is replaced (see "Cleaning and care").

It can also be used to check and alter the operating hours counter.

For information about using the appliance, see "Operation".

To switch the fan on

■ Press the On/Off control.

The fan will come on at power level "II".

The indicator lamp will come on.

If the cooker hood has been connected to a window contact switch via the Miele Control module DSM 400, then the fan cannot be switched on if the window is shut. The indicator lamp will flash.

To select a power level

■ Use the – / + controls to select the power level required.

+ control = higher setting
– control = lower setting

Depending on the intensity of the cooking vapours, levels I to III (green indicator lamps) are usually sufficient for normal cooking.

Intensive setting

When frying or cooking food with a strong aroma, you may wish to select the Intensive setting, level IV (yellow indicator lamp) for a short period.

Automatic switch-off of the Intensive setting

You can set the Intensive setting so that it only runs for 10 minutes before reverting automatically to level III.

■ To set this option, both the fan and the hob lighting must be switched off.

■ Press the run-on option control for approx. 10 seconds. The first fan setting indicator will light up.

■ Then press in turn,

– the hob lighting control,

– the **–** control, and

– finally the hob lighting control again.

The indicator lamps for fan power levels I and IV will flash if the automatic switch-off for the Intensive setting is not activated.

- Press the **+** control to activate automatic switch-off.
  The indicator lamps for fan power levels I and IV will now light up constantly.
  Press the **–** control to deactivate the automatic switch-off function.

- Press the run-on option control to confirm.

If you do not confirm your selection within 4 minutes, the cooker hood will automatically revert to the "old" setting.

Run-on option

It is advisable to run the fan for a few minutes after cooking is finished to neutralise any lingering odours in the air, whether you are using air extraction or recirculation mode.

The fan can be set to switch off automatically after either 5 or 15 minutes:

- After cooking is finished, press the run-on option control whilst the fan is still running.

– Press once = The fan will switch off after 5 minutes
(left-hand indicator lamp).

– Press twice = The fan will switch off after 15 minutes
(right-hand indicator lamp).

To switch off the run-on option, press the run-on option control again. The appliance will then not switch off automatically.

To switch the fan off

- Press the On/Off control to switch the fan off.

The indicator lamp will go out.

To switch the hob lighting on

The hob lighting can be switched on and off independently of the fan.

- Briefly press the lighting control to switch on the hob lighting.

The indicator lamp will come on.

The hob lighting will switch on at maximum brightness.

To dim the hob lighting

The brightness of the lighting can be adjusted.

- With the lighting switched on, press and hold the hob lighting control in. The brightness will gradually dim until you release the control.
- Press the control in again to increase the brightness to the level required, and then release it.

If you keep the control pressed in, the light will continually change between bright and dim.

To switch the hob lighting off

- Press the hob lighting control briefly to switch the lighting off.

The indicator lamp will go out.

Safety cut-out

Should the cooker hood be left on, the fan will switch off automatically after 10 hours. The lighting will remain on.

- Pressing the On/Off control will switch the fan back on again.

Filter operating hours counter

The number of hours the appliance has been in operation is stored in memory.

The operating hours counter tells you when the grease filters or charcoal filter need to be cleaned or replaced.

Resetting the operating hours counter for the grease filter

After 30 hours of operation (or another time if the operating hours counter has been altered), the grease filter indicator lamp will light up. The grease filter and the stainless steel outer filter must then be cleaned.

Afterwards, the filter operating hours counter must be reset.

- To do this, press and hold the grease filter control in for approx. 3 seconds while the fan is switched on.

The indicator lamp for the control will go out.

Reading the filter operating hours counter

To check the percentage of time set already used:

■ Press the On/Off control to switch the fan on.

■ Press and hold the grease filter control.

One or more of the indicator lamps for the **–** / **+** controls will flash.

The number of flashing lamps shows the percentage of the operating time which has already been used up.

1 lamp = 25 %
2 lamps = 50 %
3 lamps = 75 %
4 lamps = 100 %

The number of operating hours used remains in the memory, even when the appliance is switched off or there is a power cut.

Altering the filter operating hours counter

The filter operating hours counter is set at 30 hours. This can be lengthened or shortened to suit the type of cooking you do. You can choose 20, 30, 40 or 50 hours

– Select a short time if you roast or fry a lot.

– If you use very little fat for cooking, select a longer time.

– If you only cook occasionally we recommend that you still select a short time, because grease which has built up gradually over a long period of time will harden on the grease filters and make cleaning more difficult.

■ Press the On/Off control to switch the fan off.

■ Press the run-on option control and the grease filter control at the same time.

The indicator lamp for the grease filter control and one of the **–** / **+** indicator lamps will flash.

The – / + indicator lamps show the time which has been set:
1st lamp from the left = 20 hours
2nd lamp from the left = 30 hours
3rd lamp from the left = 40 hours
4th lamp from the left = 50 hours

- Use the – / + controls to select the desired time.

- Confirm the selection by pressing the grease filter control.

All the indicator lamps will go out.

If you do not confirm your selection within 4 minutes, the cooker hood will automatically revert to the "old" data.

Activating and altering the operating hours counter for the charcoal filter

(in recirculation mode)

The charcoal filter is needed for recirculation mode.

On delivery, the operating hours counter for the charcoal filter is **switched off**,

For recirculation mode, the operating hours counter needs to be set to suit the type of cooking you do:

- Press the On/Off control to switch the fan off.

- Press the run-on option and the charcoal filter controls at the same time.

The indicator lamp for the charcoal filter control and one of the lamps above the – / + controls will flash.

The – / + control lamps show the time which has been set:
1st lamp from the left = 120 hours
2nd lamp from the left = 180 hours
3rd lamp from the left = 240 hours
4th lamp from the left = deactivated

- Use the **–** / **+** controls to select the desired time.

- Confirm the selection by pressing the charcoal filter control.

All the indicator lamps will go out.

If you do not confirm your selection within 4 minutes, the cooker hood will automatically revert to the "old" data.

Resetting the operating hours counter for the charcoal filter

The indicator lamp for the charcoal filter control will light up after the cooker hood has operated for the number of hours set. The charcoal filter must then be replaced with a new one.

Afterwards, the filter operating hours counter must be reset.

- Press and hold the charcoal filter control for about 3 seconds while the fan is switched on.

The indicator lamp for the control will go out.

Reading the operating hours counter for the charcoal filter

To check the percentage of time set already used:

- Press the On/Off control to switch the fan on.

- Press and hold the charcoal filter control.

One or more of the indicator lamps for the **–** / **+** controls will flash.

The number of flashing lamps shows the percentage of the operating time which has already been used up.

1 lamp = 25 %
2 lamps = 50 %
3 lamps = 75 %
4 lamps = 100 %

The number of operating hours used remains in the memory, even when the appliance is switched off or there is a power cut.

Before any cleaning or maintenance work is carried out, disconnect the cooker hood from the mains supply. Ensure that:
– it is switched off at the wall socket and the plug removed, or
– the fuse is withdrawn from the fused spur connection unit, or
– the mains fuse is withdrawn, or
– the screw-out fuse is removed (in countries where this is applicable).

E-Cloth

- A microfibre E-Cloth is available from the Miele UK Spare Parts Department, which is suitable for cleaning surfaces such as stainless steel, glass, plastic and chrome without the use of chemicals. It can be washed 300 times.

Housing

General notes

The surfaces and controls are susceptible to scratches and abrasions. Please observe the following cleaning instructions.

- All external surfaces and controls can be cleaned using a Miele E-Cloth, or with warm water and a little washing-up liquid applied with a well wrung-out soft sponge or cloth.
- Wipe the surfaces dry using a soft cloth.

Do not use too much water when cleaning the controls. Water could penetrate into the electronics and cause damage.

Do not use any of the following to clean any surfaces:

– cleaning agents containing soda, acids, chlorides or solvents,

– abrasive cleaning agents, e.g. powder cleaners and cream cleaners.

– abrasive sponges, e.g. pot scourers, or sponges which have been previously used with abrasive cleaning agents.

Please note the following advice for cleaning different surfaces.

Important for appliances with stainless steel housing

(This infomation does not apply to the controls).

Stainless steel surfaces can be cleaned using the Miele E-Cloth, or with a proprietary non-abrasive cleaning agent designed specifically for use on stainless steel.

To help prevent re-soiling, a conditioning agent for stainless steel such as Neoblank (available from the Miele UK Spare Parts Department) can also be used.
Follow the manufacturer's instructions and apply sparingly with an even pressure following the direction of the grain.

Important for appliances with aluminium housing:

Aluminium is affected by the way that light falls on it, by the surrounding environment and by the angle you observe it from.

Aluminium surfaces and controls may suffer discolouration or damage if soiling is left on for too long. Remove any soiling straight away.

Observe the General notes on cleaning earlier in this section.

Do not use:

– stainless steel cleaning agents,
– cleaning agents containing descaling agents,
– dishwasher cleaner,
– oven sprays.

Controls

The controls may suffer discolouration or damage if soiling is left on them for too long. Remove any soiling straight away.

Observe the General notes on cleaning earlier in this section.

Do not use stainless steel cleaning agents on the controls.

Glass surfaces

Glass surfaces can be cleaned using a proprietary non-abrasive cleaning agent designed specifically for use on glass.

Avoid oven sprays.

Stainless steel outer filter and grease filter

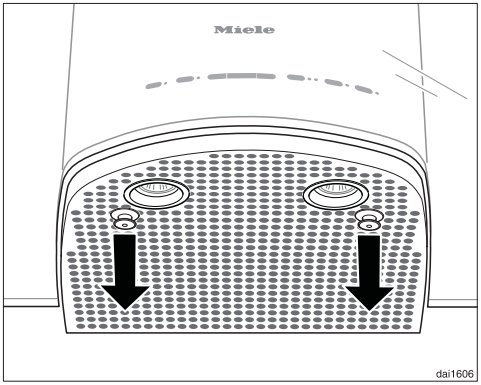
The stainless steel outer filter and the re-usable metal grease filter remove solid particles from the kitchen vapours (grease, dust, etc), preventing soiling of the cooker hood.

The stainless steel outer filter and grease filter should be cleaned regularly (at least every 3-4 weeks) to avoid a built-up of grease, but always clean them immediately if the grease filter indicator light comes on.

Both the outer filter and the grease filter should be cleaned.

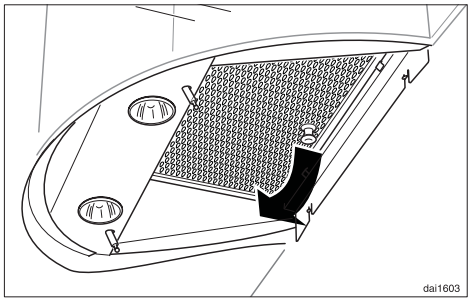
An oversaturated filter is a fire hazard.

To remove the stainless steel outer filter



- To remove the outer filter pull down on the quick-release catches. When doing this, hold the filter securely so that it does not fall on the hob surface below.

To remove the grease filter



- Hold the grease filter by the grip, and pull it downwards to remove it.
  Take care not to let the grease filter fall onto the hob.

Cleaning the grease filter and the outer filter by hand

- Clean the grease filter and the outer filter with a soft nylon brush in a mild solution of hot water and a little washing-up liquid.
  Do not use "neat" washing up liquid.

Do not use:

– cleaning agents containing descaling agents,

– alkaline cleaning agents (with a pH value higher than 7), such as powder cleaners, cream cleaners or abrasive all-purpose cleaning agents,

– oven sprays.

Cleaning the grease filter and the outer filter in the dishwasher

- Place the filters with the short side upright in the lower basket, and wash on a 65° programme using a mild dishwasher detergent, ensuring the spray arm is not obstructed.

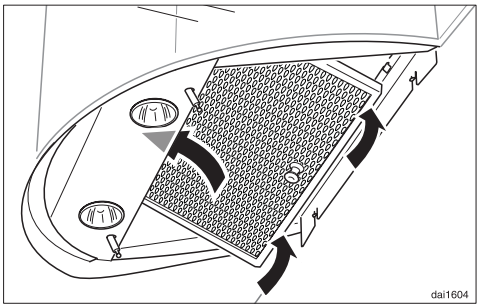
Avoid alkaline dishwasher detergents (with a pH value higher than 7).

Depending on the cleaning agent used, cleaning the grease filter in a dishwasher can cause permanent discolouration to the surface. However, this will not affect the functioning of the filter in any way.

- After cleaning, leave the filters to dry for a while on an absorbent surface before putting them back in place.
- When removing the filters for cleaning, also clean off any residues of oil or fat from the now accessible housing to prevent the risk of these catching fire.
- After cleaning the filters, press the grease filter control for approx. 3 seconds to reset the operating hours counter.
  The indicator lamp will go out.

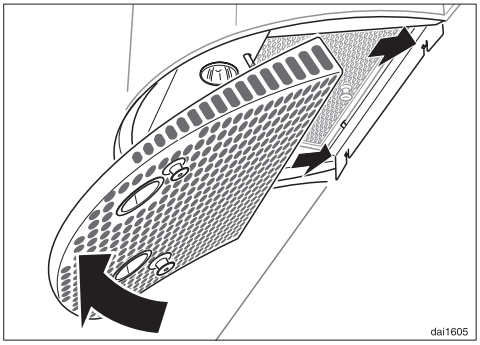
If the stainless steel outer filter and the grease filter are cleaned **before** the operating hours counter has reached its maximum, the grease filter control should be pressed for approx. 6 seconds to reset the counter to zero.

To replace the grease filter



- Holding the grease filter at an angle, fit it into the front of the chimney and then push it into position along the front edge.
- Then push it up into position at the back, making sure it clicks into position on both sides.

To replace the stainless steel outer filter



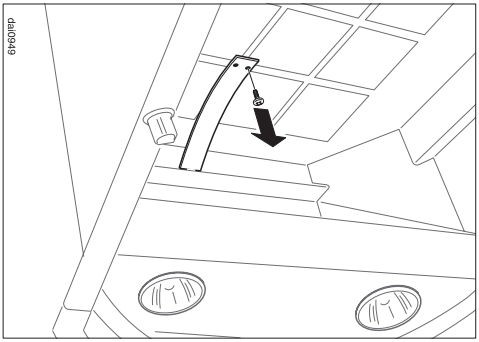
- Fit the outer filter into the appliance so that it hooks into the retainers at the back, then push it upwards at the front and make sure it engages in the quick-release mechanism.

Fitting and replacing the charcoal filter

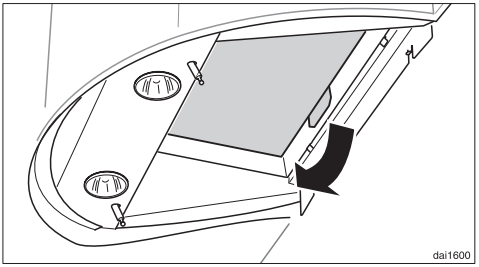
If the cooker hood is connected for recirculation, a charcoal filter must be inserted in addition to the grease filter. This is designed to absorb cooking odours.
It is fitted in the chimney above the grease filter.

Replacement charcoal filters can be obtained from your dealer or the Miele Spare Parts department.
See back cover for contact details, and "Technical data" for type and reference number.

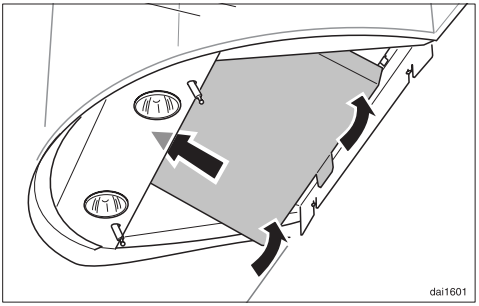
- Before fitting or replacing the charcoal filter, the outer filter and the grease filter must first be taken out. See previous section for instructions on how to do this.



- When fitting for the first time:
  A guide is installed for extraction mode which has to be removed for recirculation mode.
  Loosen the screws on it, and remove it.



- To remove the charcoal filter, pull down on the tab at the back of the filter.
- Take the new filter out of its packaging.



- Fit the filter into the front of the chimney; push it upwards at the back, and press it firmly into position.
- Replace the grease filter and then the outer filter.

When fitting for the first time:

- Activate the operating hours counter (see "Use").

Always replace the filter immediately if the lamp for the charcoal filter touch control comes on, or if it is no longer effective in absorbing kitchen odours. It should be replaced at least every 6 months.

Used charcoal filters can be disposed of with the normal household waste.

- After fitting a new charcoal filter, press the charcoal filter touch control for approx. 3 seconds to re-set the operating hours counter.
  The indicator lamp will go out.

If a charcoal filter is replaced before the operating hours counter has reached its maximum, the charcoal filter touch control should be pressed for approx. 6 seconds to reset the counter.

Changing a halogen lamp

Disconnect the cooker hood from the mains supply by:

– switching it off at the wall socket and removing the plug, or
– withdrawing the fuse from the fused spur connection unit, or
– withdrawing the mains fuse, or
– removing the screw-out fuse (in countries where this is applicable).

Exercise caution when changing halogen lamps. They get very hot during use, and remain hot for some time after being switched off.
Do not touch the surface directly when changing a lamp, as grease particles from your fingers will adhere to the surface and damage it. Please follow the manufacturer's instructions.

- Remove the stainless steel outer filter (see "Cleaning and care").
- Pull the halogen lamp out of its socket. Take care not to let the lamp fall onto the hob below.
- Insert the new halogen lamp into its socket and carefully push into position.

When replacing a defective lamp it is suggested that you use exactly the same type of lamp (see "Technical data" for lamp specification).

In the event of a fault which you cannot correct yourself, or if the appliance is under guarantee, please contact:

– Your Miele Dealer

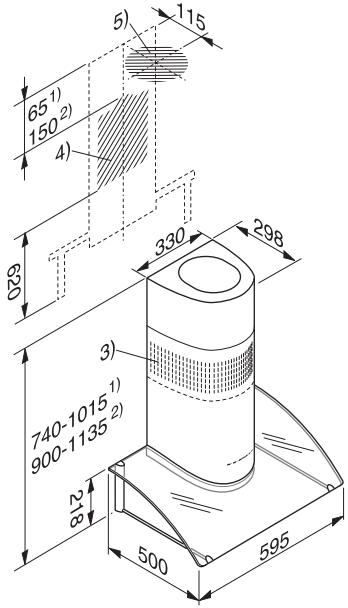
or

– The Miele Service Department (see back cover for address).

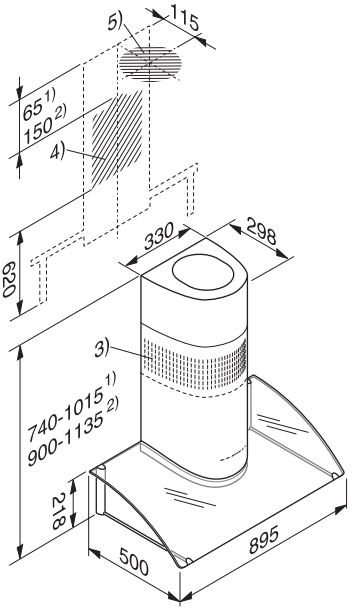
When contacting your Dealer or the Service Department, please quote the model and serial number of your appliance. These are shown on the data plate which is visible when the grease filter is removed.

Please note that telephone calls may be monitored and recorded for training purposes.

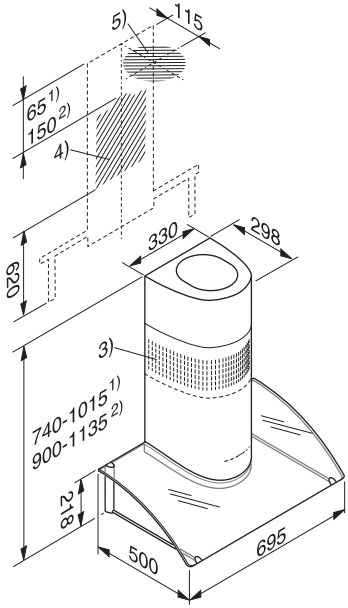
Appliance dimensions



DA 446-4



DA 449-4, DA 449-4 EXT



DA 447-4, DA 447-4 EXT

1) Extraction

2) Recirculation

3) Ventilation grille positioned at the top for recirculation

4) The shaded area represents the wall or ceiling area for the vent cut-out, for feeding the connection cable through to an external fan and for fitting the connection socket.
For recirculation mode, a cut-out is not required.

5) Position of vent cut-out if the cooker hood is vented through the ceiling.

Connection for air extraction
∅ 150 mm, or ∅ 125 mm with reducing collar.

Safety distance between hob and cooker hood (S)

When planning the installation height of your cooker hood, the **minimum** safety distance between the top of a cooker or hob and the bottom of the cooker hood is as follows, unless a greater distance is specified by the manufacturer of your cooking appliance:
450 mm above electric hobs and cookers.
650 mm above gas hobs and cookers
650 mm above an open grill or deep fat fryer.

See "Warning and Safety" instructions for further information.

– When deciding on the safety distance between the hob and cooker hood, please note that a distance of 650 mm above electric cookers/hobs may be preferable to give more working space under the hood.

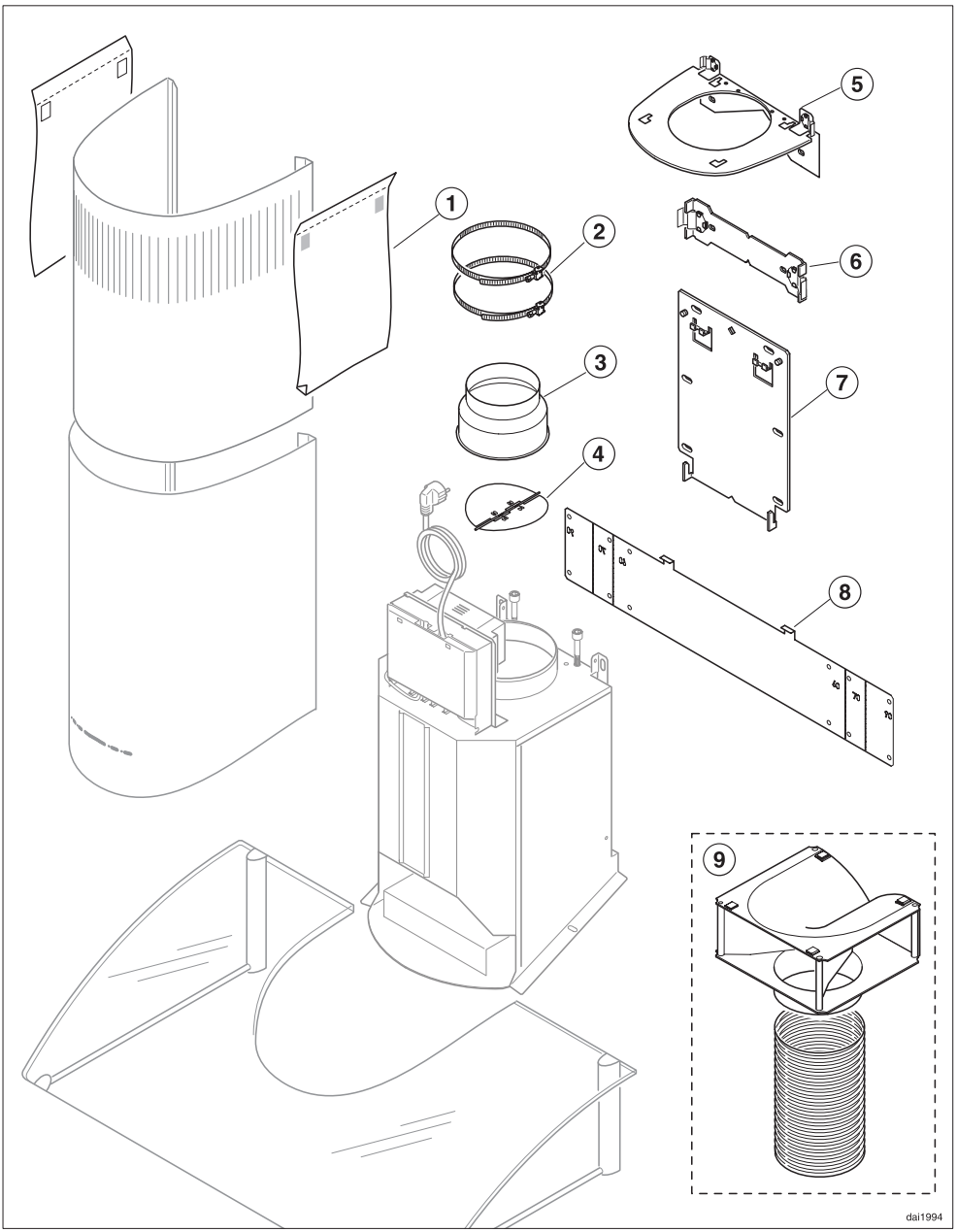
– Account should also be taken of the height of the person who will be using the hood most often. The person should have sufficient space to work comfortably at the hob, and also be able to reach the hood controls with ease.

– If positioned too high, extraction will be inefficient.

– The height of the cooking appliance must be taken into account when planning the installation height of the cooker hood.

Installation

Assembly parts



① **2 protective sheets**
for use when fitting the tower.

② **2 hose clips**
for securing the exhaust ducting.

③ **1 reducing collar**
for exhaust ducting ∅ 125 mm (not on EXT models).

④ **1 non-return valve**
for fitting into the exhaust connection on the motor unit (for extraction mode only, not on EXT models).

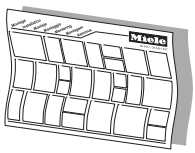
⑤ **Upper retaining plate**
for securing the extension piece.

⑥ **Middle retaining plate**
for securing the extension piece.

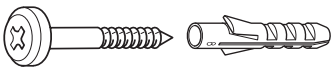
⑦ **Lower retaining plate**
for securing the appliance unit.

⑧ **Template**
for assembling the canopy.

⑨ **Conversion kit for recirculation mode**
including directional unit, 2 exhaust grilles and flexible aluminium hose. (The conversion kit is not supplied with the cooker hood, but is available as an optional extra. See "Technical data").



Installation instructions DIN A3

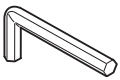


8 large headed screws 5 x 40 mm and **8 x S 8 plugs**
for securing the retaining plates.

The screws and plugs are designed for use in solid walls only.
For other types of wall construction, alternative fixings will be required.
Make sure that the wall is able to take the weight of the cooker hood.

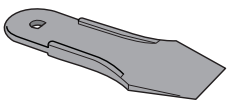
2 x M 6 self-tapping nuts
for securing the appliance.

2 screws 3.9 x 7.5 mm
for securing the tower.



1 hexagonal (Allen) key
for adjusting the height of the appliance and for connecting the control unit.

1 cover cap



1 lever for removing the tower.

Before installation, it is important to read the information given on the following pages as well as the "Appliance dimensions" and the "Warning and Safety instructions" at the beginning of this booklet.
This is particularly crucial when using the cooker hood at the same time as a heating appliance that relies on oxygen from the same room to avoid the danger of toxic fumes building up.

Installation instructions

See enclosed Installation sheet for instructions on how to install this appliance.

Protective foil

(on stainless steel appliances)

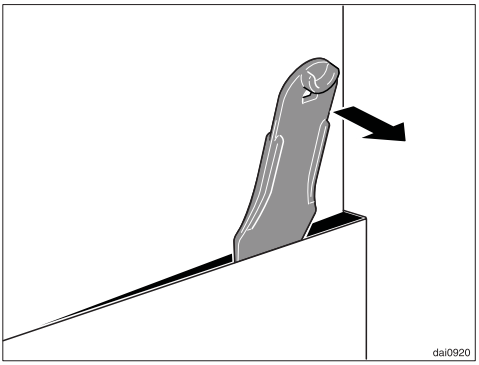
The tower and extension piece have protective foil around them to prevent them being damaged during transport.

Please remove this foil before fitting them. It can be peeled off easily.

Dismantling

Should the appliance need to be dismantled, follow the installation instructions in reverse order as described on the Installation sheet.

A lever is supplied to assist with the removal of the tower.



- After loosening the fixing screws on the tower, push the lever between the tower and the extension piece to lever the tower out of its fixings.

Important: To avoid the danger of toxic fumes please observe the Warning and Safety instructions. This is especially crucial when using the cooker hood at the same time as another heating appliance which relies on air from the same room. The cooker hood should be installed according to local and national building regulations. Seek approval from the building inspector where necessary.

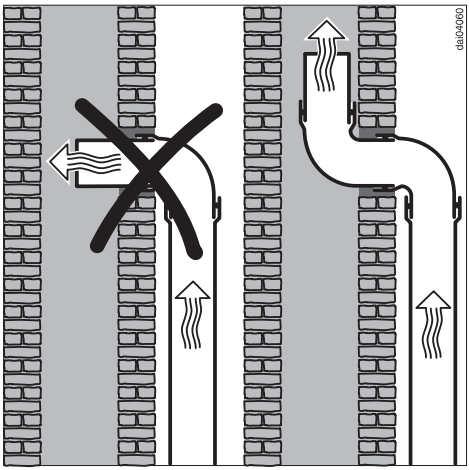
– All ducting, pipework and fittings must be of non-flammable materials.
– The exhaust ducting should be as short and straight as possible.
– To ensure efficient air extraction, the diameter of the exhaust ducting should not be less than 150 mm.

If exhaust ducting with a diameter of less than 150 mm, or if flat ducting is used, the noise level of the cooker hood will increase and extraction will be less efficient.

Only reduce the diameter of the ducting if absolutely necessary, e.g. where narrower ducting has already been installed.

– Only use wide radius bends. Tight bends reduce the air throughput of the cooker hood.
– Only use smooth pipes or flexible hoses made from non-flammable materials for extraction connection.
– Where ducting is horizontal, it must be laid to slope away at at least 1 cm per metre.

  This is to ensure that condensate cannot drain back into the cooker hood.
– If the exhaust air is to be ducted into the open air, the installation of a telescopic wall vent is recommended.



– If the exhaust air is to be ducted into a vent flue, the ducting must be directed in the flow direction of the flue.

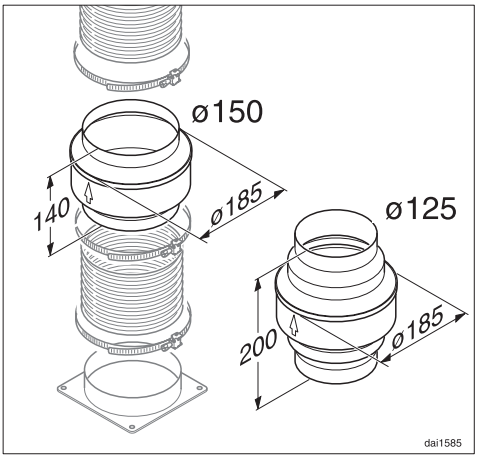
Connection for air extraction

Important:

If the exhaust ducting is to run through rooms, ceiling space etc. where there may be great variations in temperature between the different areas, the problem of condensation will need to be addressed. The exhaust ducting will need to be suitably insulated.

Condensate trap

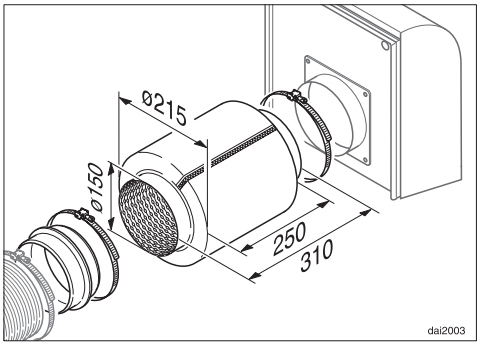
(optional accessory)



In addition to insulating the exhaust ducting, we recommend that a suitable condensate trap is installed to collect and evaporate any condensate which may occur. Condensate traps are available for ∅ 125 mm or ∅ 150 mm ducting.

When installing a condensate trap, ensure that it is positioned vertically and if possible directly above the exhaust connection. The arrow on the housing indicates the direction of air-flow.

Silencer



To achieve even further reductions in noise levels, a special silencer can be fitted in the ducting system.

It can be sited at any suitable position in the ducting system between the cooker hood and the external motor on EXT model cooker hoods.

On extraction models, it can be fitted nearest the ducting outlet to the outside to reduce neighbourhood noise.

On recirculation models, it can be fitted in between the fan and the deflector.

All electrical work should be undertaken by a suitably qualified and competent person in strict accordance with current national and local safety regulations (BS 7671 in the UK).

Installation, repairs and other work by unqualified persons could be dangerous, for which the manufacturer cannot be held liable.

Ensure power is not supplied to the appliance until after installation or repair work has been carried out.

Do not connect the appliance to the mains electricity supply by an extension lead. These do not guarantee the required safety of the appliance.

The connection data is given on the data plate. This is visible when the grease filters have been removed. Ensure that this data matches the household mains supply.

Connection of this appliance should be made via a suitable isolator or a double pole fused spur connection unit which complies with national and local safety regulations and the On-Off switch should be easily accessible after the appliance has been built in.
When switched off there must be an all-pole contact gap of 3 mm in the switch (including switch, fuses and relays according to EN 60335).

If the switch is not accessible after installation (depending on country), an additional means of disconnection must be provided for all poles.

For extra safety it is advisable to install a residual current device (RCD) with a trip current of 30 mA.

Important

U.K., IRL, NZ, ZA: This appliance is supplied for connection to an a.c. 230 V single phase 50 Hz supply.

AUS: This appliance is supplied for connection to an a.c. single phase 240 V, 50 Hz supply.

The wires in the mains lead are coloured in accordance with the following code:

Green/yellow	= earth
Blue	= neutral
Brown	= live

WARNING:
THIS APPLIANCE MUST BE EARTHED

Operation with Control module DSM 400

The Miele DSM 400 Control module can be used to combine the cooker hood with other components.

It enables the following:

Connection to a window contact switch

If adequate ventilation to the room can only be ensured by having a window open when the cooker hood is in use at the same time as a heating appliance which depends on the air from the same room, then the control module can be used to connect a window contact switch (not supplied) to the appliance.

Once connnected, the cooker hood can only be operated when the window is sufficiently open (see also "Warning and Safety instructions").

When the window is closed the cooker hood fan cannot be switched on. The indicator lamp for the On/Off touch control on the cooker hood will flash.

The same applies to operation with an external motor (depending on model).

The cooker hood lighting is not affected by this.

Take care when ventilating the room through an open window that ventilation is not impaired by a closed blind or curtain.

If the control module is disconnected in order to operate the cooker hood without the window contact switch (e.g. after moving house) the cooker hood electronics must be reset by a Miele service technician.

Potential free connection

This enables an external appliance to be controlled according to the switch setting on the cooker hood fan.

– For instance it can be used to ensure a sufficient supply of fresh air when the cooker hood and a heating appliance which also depends on the air in the room are being used together, by switching on an air intake fan, or opening a motorised inlet flap as soon as the cooker hood fan is switched on. It is important to ensure that the fan power is sufficient and that the air intake has a suitable cross-sectional diameter.

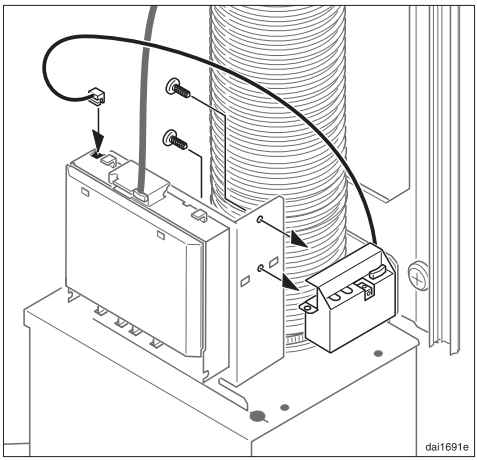
– If a sufficient air intake cannot be guaranteed, then the potential free contact will enable a heating appliance, which depends on air in the same room as a cooker hood, to be switched off when the cooker hood is in operation.

See also "Warning and Safety" instructions.

Connection to a light switch

The control module can be used to switch on the cooker hood lighting and also to dim it, depending on model, via a light switch in the house.

Installation



The tower needs to be removed before the control module can be fitted to the fan unit.

The control module is supplied with its own detailed operating and installation instructions.

Technical data

Total connected load* . . . . . 240 W
– Fan motor* . . . . . 200 W
– Hob lighting . . . . . 2 x 20 W
Halogen lamps
Osram type 44890 WFL, 20 W

Voltage
UK, NZ, ZA . . . . . AC 230 V
AUS . . . . . AC 240 V

Frequency . . . . . 50 Hz

Fuse rating (UK) . . . . . 3 A

AUS, NZ:

Plug rating . . . . . 10 A

Test marks . . . . . Electrical safety
. . . . . C-Tick Mark

Electrically suppressed
according to AS/NZS 1044

Electrical cable length . . . . . 1.5 m

Weight
DA 446-4 . . . . . 22.5 kg
DA 447-4. . . . . 23.2 kg
DA 447-4 EXT . . . . . 20.3 kg
DA 449-4. . . . . 25 kg
DA 449-4 EXT . . . . . 22 kg

Fan performance*

Extraction power according to
EN 61591

Extraction system ∅ 150 mm:
Level I . . . . . 200 m^3/h
Level II. . . . . 300 m^3/h
Level III . . . . . 400 m^3/h
Level IV Intensive Setting . . . . 640 m^3/h

Extraction system ∅ 125 mm:
Level I . . . . . 180 m^3/h
Level II. . . . . 280 m^3/h
Level III . . . . . 380 m^3/h
Level IV Intensive Setting . . . . 580 m^3/h

Unrestricted. . . . . 690 m^3/h

Recirculation with charcoal filter:

Level I . . . . . 150 m^3/h
Level II. . . . . 210 m^3/h
Level III . . . . . 330 m^3/h
Level IV Intensive Setting . . . . 490 m^3/h

Special accessory for recirculation mode:

– Conversion kit DUW 20

– Miele charcoal filter DKF 9

* For EXT models, the connected load and extraction power will depend on the type of external motor fitted.

EXT models:
Length of connection cable to external motor. . . . . 1.9 m

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